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TRANSMITTAL FORM			Application Number	10/08	10/084,935			
			Filing Date	Marc	h 1, 2002			
			First Named Inventor	Shur	Shunpei YAMAZAKI et al.			
			Group Art Unit	2815				
(to be used for all correspondence after initial filing)			Examiner Name	Jeron	ne Jackson, Jr.			
Total Number of Pages in This Submission		Attorney Docket Numbe	er 0756	-2447				
ENCLOSURES (check all that apply)								
Fee Transmittal Form Fee Attached Drawing Declarate Attorne After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) (for an an an analysis) Petition Provision Provision Addres Termin Request		ation and Power of by ng-related Papers n to Convert to a onal Application of Attorney, Revocation e of Correspondence s al Disclaimer st for Refund umber of CD(s)	Grou Appe of Ap Appe (App Prop Statu Othe 1. F E 2. II 3. 4. 5. 6.	al Communication to Board peals and Interferences al Communication to Group eal Notice, Brief, Reply Brief) rietary Information s Letter r Enclosures sequest for Continued xamination enterview Summary Letter				
	SIGNATUR	E OF APP	LICANT, ATTORNEY, C	R AGENT	•			
Firm or Individual name	Eric J. Robinson, Reg. No. 38,285 Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, VA 20165							
Signature					t			
Date	May 10, 2007							
	CERTIFICATE OF MAILING							
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.								
Type or printed name Adele M. Stam		per						
Signature Mule N		Stamper	Date	May 10, 2007				

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Attorney Docket No. 0756-2447

THE UNITED STATES PATEN	IT A	AND TRADEMARK OFFICE	
In re Patent Application of:)	Group Art Unit: 2815	
Shunpei YAMAZAKI et al.)	Examiner: Jerome Jackson, Jr.	
Serial No. 10/084,935 Filed: March 1, 2002		CERTIFICATE OF MAILING I hereby certify that this correspondence is	
		being deposited with the United States Postal Service with sufficient postage as First Class	
For: INSULATING FILM AND METHOD)	Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450,	
OF PRODUCING SEMICONDUCTOR)	Alexandria, VA 22313-1450, on May 10, 2007.	
DEVICE)	Colle M Stamper	

INTERVIEW SUMMARY RECORD

Honorable Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

A final Official Action was mailed August 14, 2006. The Applicant filed an after final *Response* on November 14, 2006 (received by OIPE November 17, 2006). An Advisory Action was mailed December 5, 2006. The Applicant conducted a telephonic interview with Examiner Jackson on December 14, 2006. The Applicant filed a Request for Continued Examination (RCE) and Information Disclosure Statement on December 14, 2006 (received by OIPE December 18, 2006). A *Notice of Improper Request for Continued Examination*, was mailed March 6, 2007, asserting that the RCE was improper for failing to include a submission.

However, under MPEP § 706.07(h), when no reply to an Office action under 35 U.S.C. § 132 is outstanding, as was the case in the present application, the submission requirement is satisfied by an information disclosure statement. Furthermore, under MPEP § 706.07(h), the submission requirement is satisfied by arguments submitted after final rejection, which were entered by the examiner but not found persuasive, if such arguments are responsive within the meaning of 37 CFR § 1.111 to an Official Action. The Applicant respectfully submits that the Information Disclosure Statement

filed December 14, 2006, and that the Response filed November 14, 2006, is responsive to the final Official Action mailed August 14, 2006, within the meaning of Rule 111 and therefore constitute a submission. Nonetheless, the Applicant received the *Notice*, asserting that the RCE was improper for failing to include a submission.

In a telephone conversation with Goiga N. Duckett, Technology Center 1600, conducted on May 9, 2007, agreement was reached that the present application is pending; that, in response to the Notice, the Applicant may submit a new RCE Transmittal along with a copy of the Response filed November 14, 2006; and that the RCE would be properly entered and processed with such attachments.

Although the Applicant respectfully submits that the RCE filed December 14, 2006, was proper and fully complied with the rules for at least the reasons noted above, in accordance with the agreement reached with Ms. Duckett, the Applicant has attached a new RCE Transmittal identifying the Response filed November 14, 2006, and copy of the same. Also, as a courtesy, the Applicant has attached the Information Disclosure Statement filed December 14, 2006, and copy of the same. The RCE Transmittal also indicates that the RCE fee was previously paid. Further, the Applicant has attached a copy of the Notice as required in the Notice itself.

As such, the Applicant respectfully submits that the submission requirement has been met. Therefore, the Applicant requests entry of the RCE and that the Response and IDS be forwarded to the Examiner for review and consideration.

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Should the Technology Center personnel or the Examiner believe that anything further would be desirable to place this application in better condition for allowance, such personnel or the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

Eric J. Robinson

Reg. No. 38,285

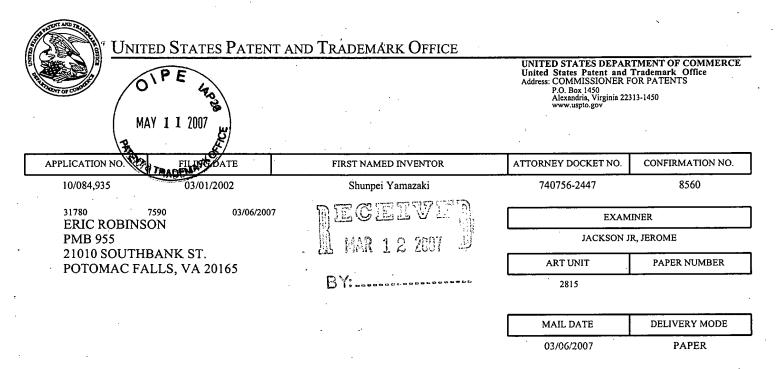
Robinson Intellectual Property Law Office, P.C.

PMB 955

21010 Southbank Street

Potomac Falls, Virginia 20165

(571) 434-6789



Please find below and/or attached an Office communication concerning this application or proceeding.





Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

www.uspto.gov

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

DATE MAILED:

NOTICE OF IMPROPER REQUEST FOR CONTINUED EXAMINATION (RCE)
The request for continued examination (RCE) under 37 CFR 1.114 filed on 12/18/06 is improper for reason(s) indicated below:
 Continued examination under 37 CFR 1.114 does not apply to an application for a design patent. Applicant may wish to consider filing a continuing application under 37 CFR 1.53(b) or a CPA under 37 CFR 1.53(d). An RCE cannot be treated as a CPA.
2. Continued examination under 37 CFR 1.114 does not apply to an application that was filed before June 8, 1995. Applicant may wish to consider filing a continuing application under 37 CFR 1.53(b).
3. Continued examination under 37 CFR 1.114 does not apply to an application unless prosecution in the application is closed. If the RCE was accompanied by a reply to a non-final Office action, the reply will be entered and considered under 37 CFR 1.111. If the RCE was not accompanied by a reply, the time period set forth in the last Office action continues to run from the mailing date of that action.
4. The request was not filed before payment of the issue fee, and no petition under 37 CFR 1.313 was granted. If this application has not yet issued as a patent, applicant may wish to consider filing eithe a petition under 37 CFR 1.313 to withdraw this application from issue, or a continuing application under 37 CFR 1.53(b).
5. The request was not filed before abandonment of the application. The application was abandoned, or proceedings terminated on Applicant may wish to consider filing a petition under 37 CFR 1.137 to revive this abandoned application.
6. The request was not accompanied by the fee set forth in 37 CFR 1.17(e) as required by 37 CFR 1.114. Since the application is not under appeal, the time period set forth in the final Office action or notice of allowance continues to run from the mailing date of that action or notice.
7. The request was not accompanied by a submission as required by 37 CFR 1.114. Since the application is not under appeal, the time period set forth in the final Office action or notice of allowance continues to run from the mailing date of that action or notice.
Note: A continued prosecution application (CPA) under 37 CFR 1.53(d) <u>cannot</u> be filed in a utility or plant application. A CPA filed in a utility or plant application that has a filing date on or after June 8, 1995 will be treated as an RCE under 37 CFR 1.114. The request for a CPA in the instant application, however, has been treated as an improper RCE for the reason(s) indicated above.
A copy of this notice <u>MUST</u> be returned with any reply.
Direct the reply and any questions concerning this notice to:
10gan. Duckett_, Technology Center
(203) 30571-272.0522

FORM PTO-2051 (Rev. 7/2003)

Attorney Docket No. 0756-2447



IN THE DOMESTATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)	Group Art Unit: 2815
Shunpei YAMAZAKI et al.)	Examiner: Jerome Jackson, Jr.
Serial No. 10/084,935)	CERTIFICATE OF MAILING
Filed: March 1, 2002		I hereby certify that this correspondence is being deposited with the United States Posta
For: INSULATING FILM AND METHOD)	Service with sufficient postage as First Class Mail in an envelope addressed to:
OF PRODUCING SEMICONDUCTOR)	Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on November 14, 2006
DEVICE)	adili M Stamper

RESPONSE

Honorable Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The Official Action mailed August 14, 2006, has been received and its contents carefully noted. This response is filed within three months of the mailing date of the Official Action and therefore is believed to be timely without extension of time. Accordingly, the Applicant respectfully submits that this response is being timely filed.

Initially, it is noted that the Applicant would like to discuss the present application with the Examiner. The Applicant will contact the Examiner to arrange a mutually agreeable time and place for the interview.

The Applicant notes with appreciation the consideration of the Information Disclosure Statements filed on March 1, 2002; June 4, 2002; October 3, 2002; April 11, 2003; December 16, 2003; and March 27, 2006.

Claims 19-26 and 35-62 are pending in the present application, of which claims 19, 35, 43 and 51 are independent. For the reasons set forth in detail below, all claims are believed to be in condition for allowance. Favorable reconsideration is requested.

The Official Action rejects claims 19-26 and 35-62 under 35 U.S.C. § 112, first paragraph, asserting that "there is no support for an 'interlayer insulating film' having the

claimed levels of halogen and carbon" (page 2, Paper No. 20060808). The Applicant respectfully disagrees and traverses the above-referenced assertions in the Official Action.

The specification discloses that in a silicon oxide insulating film, $1x10^{17}$ to $5x10^{20}$ cm⁻³ of halogen is detected from the insulating film while the carbon concentration is $5x10^{19}$ cm⁻³ or less, desirably $1x10^{18}$ cm⁻³ or less (see, e.g., page 5, lines 14-19). Also, the specification discloses that a silicon oxide film is deposited as an interlayer insulating film (see, e.g., page 13, lines 21-25).

In response, the Official Action argues that the statements of support refer to a "gate-insulating film" but not to an "interlayer insulating film." The Applicant disagrees. The Applicant notes that the title itself, the "Field of the Invention" section, and the "Summary of the Invention" broadly discuss an "insulating film" and not just a "gate-insulating film." Specifically, page 3, lines 10-17, and page 5, lines 14-29, discuss "an insulating film consisting essentially of silicon oxide" and the claimed concentrations are included at this point. Explicit support for an "interlayer insulating film" is provided at page 13, line 22.

Regarding the "gate-insulating film," the specification, at page 12, lines 6-7, states that a gate-insulating film is formed "by positive column CVD using TEOS, oxygen and TCE as raw materials." Similarly, regarding the "interlayer insulating film," the specification, at page 13, lines 22-23, states that "The silicon oxide film 209 was formed by positive column CVD, using TEOS, oxygen and TCE as raw materials." It is also taught that "the apparatus used for the filming was the same as in Example 1" at page 13, lines 24-25. Therefore, the "interlayer insulating film" at page 13, line 22, may be formed using a similar method and materials as that used to form the "gate-insulating film."

As such, the Applicant respectfully submits that the teachings with respect to the formation of an "insulating film" at the claimed concentrations (page 3, lines 10-17, and

page 5, lines 14-29) may generally be applied either to the "gate-insulating film" or to the "interlayer insulating film."

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Therefore, the specification clearly discloses a silicon oxide film having a specific concentration of halogen elements and carbon, which is used as an interlayer insulating film, as claimed in the present claims. The Applicant respectfully submits that claims 19-26 and 35-62, when read in light of the specification, are adequately described and supported in the specification. Accordingly, reconsideration and withdrawal of the rejections under 35 U.S.C. § 112 are in order and respectfully requested.

Should the Examiner believe that anything further would be desirable to place this application in better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

Eric J. Robinson

Reg. No. 38,285

Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, Virginia 20165 (571) 434-6789